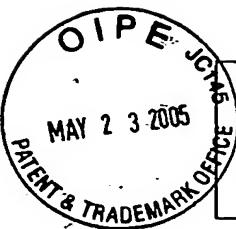


JC10 Rec'd PCT/PTO 23 MAY 2005

PCT #3



I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: May 19, 2005

Signature:

Andrea Silberman
(Andrea Silberman)

Docket No.: SLII-P01-002
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Hooft Van Huijsduijnen et al.

Confirmation No.: N/A

Application No.: 10/526,164

Art Unit: N/A

Filed: February 28, 2005

Examiner: Not Yet Assigned

For: PROTEIN TYROSINE PHOSPHATASE
INHIBITORS

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

A copy of each reference on the PTO/SB/08 is attached.

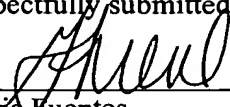
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. SLII-P01-002. A duplicate copy of this paper is enclosed.

Dated: May 19, 2005

Respectfully submitted,

By 
Gloria Fuentes

Registration No.: 47,580
FISH & NEAVE IP GROUP
ROPES & GRAY LLP
1251 Avenue of the Americas
New York, New York 10020-1104
(212) 596-9337
(212) 497-3650 (Fax)
Attorneys/Agents For Applicant



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/526,164
				Filing Date	February 28, 2005
				First Named Inventor	Rob Hooft Van Huijsduijnen
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	4	Attorney Docket Number	SLII-P01-002

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	ANDERSON et al., 2001, Structural and evolutionary relationships among protein tyrosine phosphatase domains, Mol. Cell. Biol. 21:7117-7136	
	CB	ASANTE-APPIAH et al., 2001, The YRD motif is a major determinant of substrate and inhibitor specificity in T-cell protein-tyrosine phosphatase, J. Biol. Chem. 276:26036-26043	
	CC	BJORGE et al., 2000, Identification of Protein-tyrosine Phosphatase 1B as the Major Tyrosine Phosphatase Activity Capable of Dephosphorylating and Activating c-Src in Several Human Breast Cancer Cell Lines, J. Biol. Chem. 275(52):41439-41446	
	CD	BLASKOVICH et al., 2002, Recent discovery and development of protein tyrosine phosphatase inhibitors, Expert Opin. Ther. Patents, 12(6):871-905	
	CE	BLISKA et al., 1991, Tyrosine phosphate hydrolysis of host proteins by an essential Yersinia virulence determinant, Proc. Natl. Acad. Sci. USA 88:1187-1191	
	CF	BORDO and ARGOS, 1991, Suggestions for "Safe" Residue Substitutions in Site-directed Mutagenesis, J. Mol. Biol. 217:721-729	
	CG	BUCKLEY et al., 2002, Regulation of Insulin-Like Growth Factor Type I (IGF-I) Receptor Kinase Activity by Protein Tyrosine Phosphatase 1B (PTP-1B) and Enhanced IGF-I-Mediated Suppression of Apoptosis and Motility in PTP-1B-Deficient Fibroblasts, Mol. Cell. Biol. 22(7):1998-2010	
	CH	BURKE et al., 1996, Small Molecule Interactions with Protein-Tyrosine Phosphatase PTP1B and Their Use in Inhibitor Design, Biochem. 35:15989-15996	
	CI	COCHRAN, 2001, Protein-protein interfaces: mimics and inhibitors, Curr. Opin. in Chem. Biol. 5:654-659	
	CJ	COCHRANE et al., 2000, Identification of Natural Ligands for SH2 Domains from a Phase Display cDNA library, J. Mol. Biol. 297:89-97	
	CK	COTE et al., 1998, Combination of gene targeting and substrate trapping to identify substrates of protein tyrosine phosphatases using PTP-PEST as a model, Biochemistry 37:13128-13137	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--



PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/526,164	
			Filing Date	February 28, 2005	
			First Named Inventor	Rob Hooft Van Huijsduijnen	
			Art Unit	N/A	
			Examiner Name	Not Yet Assigned	
Sheet	2	of	4	Attorney Docket Number	SLII-P01-002

CL	DATABASE EMBL Online, December 1, 2001, retrieved from EBI Database accession no. Q69575 XP002224616 Peptide comprising LLYGAFG abstract	
CM	DENG et al., 2001, Identifying substrates for endothelium-specific Tie-2 receptor tyrosine kinase from phage-displayed peptide libraries for high throughput screening, Comb Chem High Throughput Screen 4:525-533	
CN	DENTE et al., 1997, Modified phage peptide libraries as a tool to study specificity of phosphorylation and recognition of tyrosine containing peptides, J Mol Biol. 269:694-703	
CO	DEVINNEY et al., 2000, Phosphatases and kinases delivered to the host cell by bacterial pathogens, Trends in Microbiol. 8(1):29-33	
CP	DOUGHERTY, 2000, Unnatural amino acids as probes of protein structure and function, Curr. Opin. in Chem. Biol. 4:645-652	
CQ	ELCHEBLY et al., 1999, Increased insulin sensitivity and obesity resistance in mice lacking the protein tyrosine phosphatase-1B gene, Science 283:1544-1548	
CR	ESPANEL and SUDOL, 2001, Yes-associated Protein and p53-binding Protein-2 Interact through Their WW and SH3 Domains, J. Biol. Chem. 276(17):14514-14523	
CS	ESPANEL et al., 2001, Pulling strings below the surface: hormone receptor signaling through inhibition of protein tyrosine phosphatases, Endocrine 15:19-28	
CT	FACHINGER et al., 1999, Functional interaction of vascular endothelial-protein-tyrosine phosphatase with the Angiopoietin receptor Tie-2, Oncogene 18:5948-5953	
CU	FELICI et al., 1991, Selection of Antibody Ligands from a Large Library of Oligopeptides Expressed on a Multivalent Exposition Vector, J. Mol. Biol. 222:301-310	
CV	FLINT et al., 1997, Development of "substrate-trapping" mutants to identify physiological substrates of protein tyrosine phosphatases, Proc. Natl. Acad. Sci. USA 94:1680-1685	
CW	FRIDEN et al., 1993, Blood-Brain Barrier Penetration and in Vivo Activity of an NGF Conjugate, Science 259:373-377	
CX	GARTON et al., 1996, Identification of p130 ^{Cas} as a substrate for the cytosolic protein tyrosine phosphatase PTP-PEST, Mol. Cell. Biol. 16:6408-6418	
CY	GOLDSTEIN et al., 1998, Regulation of the insulin signalling pathway by cellular protein-tyrosine phosphatases, Mol. Cell. Biochem. 182:91-99	
CZ	GOLEBIEWSKI et al., 2001, High-throughput organic syntheses of peptide mimetics," Curr. Opin. in Drug Disc. and Dev. 4(4):428-434	
CA1	GROVES et al., 1998, Structural Basis for Inhibition of the Protein Tyrosine Phosphatase 1B by Phosphotyrosine Peptide Mimetics, Biochem. 37:17773-17783	
CB1	HIGASHI et al., 2002, SHP-2 Tyrosine Phosphatase as an Extracellular Target of <i>Helicobacter pylori</i> CagA Protein, Science 295:683-686	
CC1	HOOFT van HUIJSDUIJNEN, 1998, Protein tyrosine phosphatases: counting the trees in the forest, Gene 225:1-8	
CD1	HRUBY and BALSE, 2000, Conformational and Topographical Considerations in Designing Agonist Peptidomimetics from Peptide Leads, Curr. Med. Chem. 7:945-970	
CE1	HUYER et al., 1998, Affinity selection from peptide libraries to determine substrate specificity of protein tyrosine phosphatases, Anal. Biochem. 258:19-30	
CF1	JAIN and MUNN, 2000, Leaky vessels? Call Ang1!, Nature Med. 6(2):131-132	
CG1	KIM and KAHN, 2000, A Merger of Rational Drug Design and Combinatorial Chemistry: Development and Application of Peptide Secondary Structure Mimetics, Comb. Chem. & High Throughput Screen. 3:167-183	
CH1	KLAMAN et al., 2000, Increased energy expenditure, decreased adiposity, and tissue-specific insulin sensitivity in protein-tyrosine phosphatase 1B-deficient mice, Mol. Cell. Biol 20:5479-5489	
CI1	KOLE et al., 1996, A Peptide-based Protein-tyrosine Phosphatase Inhibitor Specifically Enhances Insulin Receptor Function in Intact Cells, J. Biol. Chem. 271(24):14302-14307	
Examiner Signature		Date Considered

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/526,164
				Filing Date	February 28, 2005
				First Named Inventor	Rob Hooft Van Huijsduijnen
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	3	of	4	Attorney Docket Number	SLII-P01-002

	CJ1	LANDER et al., 2001, Initial sequencing and analysis of the human genome, Nature 409:860-921	
	CK1	LARSEN et al., 2002, Synthesis and biological activity of a novel class of small molecular weight peptidomimetic competitive inhibitors of protein tyrosine phosphatase 1B, J. Med. Chem. 45:598-622	
	CL1	LINDGREN et al., 2000, Cell-penetrating peptides, TIPS 21:99-103	
	CM1	MARCUS et al., 1996, Cytokine-induced increases in endothelial permeability occur after adhesion molecule expression, Surgery 120:411-417	
	CN1	MATOUZAKI and KASUGA, 1996, Roles of Protein-Tyrosine Phosphatases in Growth Factor Signalling, Cell. Signal. 8(1):13-19	
	CO1	MURLI et al., 2001, Role of tyrosine kinases and the tyrosine phosphatase SptP in the interaction of <i>Salmonella</i> with host cells, Cell. Microbiol. 3(12):795-810	
	CP1	MURPHY et al., 2000, Simplified amino acid alphabets for protein fold recognition and implications for folding, Protein Eng. 13(3):149-152	
	CQ1	MURTHY et al., 1999, Fusion Proteins Could Generate False Positives in Peptide Phage Display, BioTechniques 26(1):142-149	
	CR1	NOGUCHI et al., 2001, Inhibition of Cell Growth and Spreading by Stomach Cancer-associated Protein-tyrosine Phosphatase-1 (SAP-1) through Dephosphorylation of p130 ^{cas} , J. Biol. Chem. 276(18):15216-15224	
	CS1	ODENBREIT et al., 2000, Translocation of <i>Helicobacter pylori</i> CagA into Gastric Epithelial Cells by Type IV Secretion, Science 287:1497-1500	
	CT1	PATHAK and YI, 2001, Sodium Stibogluconate Is a Potent Inhibitor of Protein Tyrosine Phosphatases and Augments Cytokine Response in Hemopoietic Cell Lines, J. Immunol. 167:3391-3397	
	CU1	PELLEGRINI et al., 1998, Mapping the subsite preferences of protein tyrosine phosphatase PTP-1B using combinatorial chemistry approaches, Biochemistry 37(45):15598-15606	
	CV1	RANNEY, 1999, Biomimetic Transport and Rational Drug Delivery, Biochem. Pharm. 59:105-114	
	CW1	ROGOV and NEKRASOV, 2001, A numerical measure of amino acid residues similarity based on the analysis of their surroundings in natural protein sequences, Protein Eng. 14(7):459-463	
	CX1	SALMEEN et al., 2000, Molecular Basis for the Dephosphorylation of the Activation Segment of the Insulin Receptor by Protein Tyrosine Phosphatase 1B, Mol. Cell 6:1401-1412	
	CY1	SARMIENTO et al., 2000, Structural Basis of Plasticity in Protein Tyrosine Phosphatase 1B Substrate Recognition, Biochem. 39:8171-8179	
	CZ1	SCHMITZ et al., 1996, Catalytic specificity of phosphotyrosine kinases Blk, Lyn, c-Src and Syk as assessed by phage display, J. Mol. Biol. 260:664-677	
	CA2	SCHWARZE and DOWDY, 2000, <i>In vivo</i> protein transduction: intracellular delivery of biologically active proteins, compounds and DNA, TIPS 21:45-48	
	CB2	SEO et al., 1997, Overexpression of SAP-1, a Transmembrane-Type Protein Tyrosine Phosphatase, in Human Colorectal Cancers, Biochem. Biophys. Res. Comm. 231:705-711	
	CC2	TERRY et al., 1997, Accessibility of peptides displayed on filamentous bacteriophage virions: susceptibility to proteinases, Biol. Chem. 378:523-530	
	CD2	VENTER et al., 2001, The Sequence of the Human Genome, Science 291:1304-1351	
	CE2	VETTER et al., 2000, Assessment of protein-tyrosine phosphatase 1B substrate specificity using 'inverse alanine scanning', J. Biol. Chem. 275:2265-2268	
	CF2	WALCHLI et al., 2000, Identification of tyrosine phosphatases that dephosphorylate the insulin receptor. A brute force approach based on "substrate-trapping" mutants, J. Biol. Chem. 275:9792-9796	
	CG2	WANG et al., 2002, Screening combinatorial libraries by mass spectrometry. 2. Identification of optimal substrates of protein tyrosine phosphatase SHP-1, Biochemistry 41(19):6202-6210	
Examiner Signature			Date Considered

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/526,164
				Filing Date	February 28, 2005
				First Named Inventor	Rob Hooft Van Huijsduijnen
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	4	of	4	Attorney Docket Number	SLII-P01-002

	CH2	WIENER et al., 1994, Overexpression of the tyrosine phosphatase PTP1B is associated with human ovarian carcinomas, Am. J. Obstet. Gynecol. 170:1177-1183	
	CI2	WU et al., 1997, Comparative kinetic analysis and substrate specificity of the tandem catalytic domains of the receptor-like protein-tyrosine phosphatase alpha, J. Biol. Chem. 272:6994-7002	
	CJ2	ZHANG et al., 1993, Substrate specificity of the protein tyrosine phosphatases, Proc. Natl. Acad. Sci. USA 90:4446-4450	
	CK2	ZHANG et al., 2000, Thermodynamic Study of Ligand Binding to Protein-tyrosine Phosphatase 1B and Its Substrate-trapping Mutants, J. Biol. Chem. 275(44):34205-34212	
	CL2	ZHANG, 2001, Protein tyrosine phosphatases: prospects for therapeutics, Curr Opin Chem Biol. 5(4):416-23	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--